

Amendments to the Claims

Claim 1 (original): A system that implements RF power measurements in a broadband communications device, comprising:

 a thermal device; and

 an automatic gain control circuit coupled to the thermal device such that the thermal device is enabled to compensate for variances in the automatic gain control circuit.

Claim 2 (original): The system of claim 1 wherein the thermal device is a variable thermister.

Claim 3 (original): The system of claim 1 further comprising a temperature independent operational amplifier.

Claim 4 (currently amended): The system of claim 1 wherein the thermal device varies gain in reverse polarity to an IF/RF gain change across temperature.

Claim 5 (original): The system of claim 1 wherein the thermal device has a positive temperature coefficient device.

Claim 6 (original): The system of claim 1 wherein the thermal device has an ambient resistive accuracy of about 1 percent as large as any other resistor in the circuit.

Claim 7 (original): The system of claim 1 wherein the broadband communications device comprises a LBT4030 compliant device.

Claim 8 (original): The system of claim 1 wherein the thermal device is a variable resistance resistor.

Claim 9 (original): The system of claim 1 wherein the thermal device has a temperature coefficient that has a curve matched to a tuner's gain across a temperature range.

Claim 10 (original): The system of claim 1 wherein the thermal device has dissipation constant that is calculated based on the resistance device coefficient.

Claims 11-20 (canceled)